

Climatological Data for May, 1910.

DISTRICT NO. 9, COLORADO VALLEY,

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

The weather conditions during May were unsettled. The storms were generally well defined and energetic in movement, but the precipitation was light in the central and southern parts of the district, even for May, and unusually light in the upper part of the drainage area. Temperature changes were frequently abrupt; cold weather for the time of the year, with frosts and freezing temperature in parts of northern Arizona, northern New Mexico, Utah, Colorado, and Wyoming, was quickly followed throughout the district by unusually high temperatures, in some localities, the highest of record. As a result of the prolonged droughty conditions grass remained short on the ranges in southwestern Wyoming. In Utah dry farm wheat was suffering at the close of the month.

TEMPERATURE.

The mean of the 127 stations reporting was 62.9° , or 2.4° above the normal. An excess was general, except over small areas in southeastern Arizona and northwestern Colorado. By subdivisions the means and departures were: Western Wyoming, 44.1° , $+4.5^{\circ}$; western Colorado, 50.6° , $+1.3^{\circ}$; eastern Utah, 58.7° , $+2.2^{\circ}$; western New Mexico, 63.0° , $+2.3^{\circ}$; Arizona, 72.5° , $+2.6^{\circ}$. The highest monthly mean was 83.8° , at Sentinel, Ariz., and the lowest, 31.0° , at Corona, Colo., on the Continental Divide. Temperatures fluctuated considerably during the first 6 days, but on the whole the weather was cooler than the normal, with marked deficiencies general on the 6th, on which date damaging frosts were reported in Utah. From the 7th to the 14th high mean temperatures were noted, but from the 15th to 23d the weather was again cold in the northern half of the district, and in northern Arizona, with frosts on the 16th, 17th, 18th, and 22d in the agricultural regions of the central and northern parts of the district, considerable damage being done to fruit at higher stations on the 17th. From the 27th to the close of the month very high temperatures prevailed throughout the entire district. It may be of interest to note that the distribution of pressure during the extraordinarily hot period of the closing days of the month occurred with pressure above the normal and a moderate gradient from the north toward the Gulf of California. The insolation during this period was unusually strong, and, although the nights were also free from clouds, the direction of the wind was unfavorable to the usual cooling at night. The highest local maximum, 121° , was noted at Gilabend, Ariz., on the 29th, and at Quartzsite, Ariz., on the 30th. At Yuma, Ariz., 120° was noted on the 30th.

PRECIPITATION.

The precipitation during the month was about one-half of the normal, the mean of 172 stations being 0.38, and the deficiency 0.35 inch. Of the stations with normals, only 5 reported an excess, and that very slight. In eastern Utah, northwestern New Mexico, and the greater part of Arizona, the month was without rain. By watersheds the means and departures were: Green, 0.97, -0.38 inch; Grand, 0.97, -0.64 ; San Juan, 0.31, -0.85 ; Mimbres, 0.20, -0.08 ; Little Colorado, 0.04, -0.56 ; Gila, 0.05, -0.20 , and Colorado proper, 0.01, -0.28 inch. The greatest monthly amount was 5.27 inches at Corona, Colo., while in New Mexico and Arizona 42 stations reported no precipitation, and 30 only a trace.

On the 2d snow fell at a few of the higher stations in Colorado, and again on the 6th. A heavy fall for the time of year occurred on the 16th in the mountains of Colorado, Wyoming, and eastern Utah, a number of stations reporting 6 inches or more. During the storm of the 21st, which was general in the higher elevations in Colorado, the average snowfall was 4 inches. In Wyoming

the greatest monthly amount reported was 16 inches; in Colorado, 48.6 inches; and in Utah, 7.5 inches.

RIVERS.

The volume discharged by the principal tributaries of the Colorado and the maximum stages reached varied but slightly from those for May, 1909. In the trunk stream the volume discharged was appreciably smaller than a year ago, with the maximum stages at Grand Canyon and Yuma about 3.0 feet lower.

MISCELLANEOUS.

The percentage of sunshine was much above the average in the northern part of the district. Grand Junction and Durango reported 88, Flagstaff 92, Phoenix 93, and Yuma 96 per cent of the possible.

The mean monthly relative humidity observed ranged from 40 per cent at Durango to 32 per cent at Phoenix.

COMPLETE PROVING OF THE ROOSEVELT DAM.

By L. N. JESUNOVSKY, Section Director, Phoenix, Ariz.

The farmers in the Salt River Valley are congratulating themselves and thanking the Government for the Roosevelt Dam. This gigantic project has proven itself, beyond all question, the most successful in the history of Arizona, for the residents of the Salt River Valley are now passing through severe conditions of drought of 7 weeks' duration, fully as acute as during the spring months of 1900, 1901, 1902, 1903, and 1904. But for the stored water supply behind the large pile of masonry some 75 miles east of Phoenix—more than 155,000 acre-feet—the growing crops on every acre under the project would have been hopelessly lost several weeks ago. At the present height of the stored water supply—some 112 feet—water for irrigation purposes may be had for 100 days, or more, should not even a single light shower occur.

The fact is that the big dam has thoroughly proven its full usefulness. Formerly, on account of droughts, there were serious water shortages in the Salt River Valley, but now conditions are entirely different.

There were at the end of May 11, 683 miners' inches of water in the Salt River, which was the principal source of supply before the massive pile of concrete called the Roosevelt Dam was constructed. There are now in use each day 40,644 miners' inches, and none is allowed to flow that is not positively necessary. In other words, were it not for the dam only a little more than 25 per cent of the water needed could be supplied, and that would mean ruin to every farmer whose land is under the project.

Were Salt River Valley to-day depending upon the water under the old system, only 4,915 inches would be given to the land lying on the north side of the river, whereas, there are now given 26,890 inches. All of this is absolutely required to keep alive the orchards, grain, and grasses, which need water constantly for sustenance. It would also mean ruin to the farmers located on the south side of the river as well, for there would be only 6,764 inches to supply the needs of that side, whereas they are now receiving a full and bountiful supply.

These figures are of great import to the farmer, and of great importance as illustrating the full usefulness of the Roosevelt Dam to the whole southwest, for much of the products raised in the Salt River Valley finds ready sale in far distant markets.

The above figures mean that 52,000 acres, every foot of which is now in the highest possible state of cultivation, would have been, to date, some 5 weeks with no water for irrigation, stock, or domestic use, while another 31,000 acres, completing

TABLE 1.—Climatological data for May, 1910. District No. 9, Colorado Valley.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.							Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of partly cloudy days.	Number of clear days.	Number of partly cloudy days.				
<i>Wyoming.</i>																					
Daniel.	Uinta.	6,740	11	47.1	+ 4.5	79	31	19	17	48	0.75	- 0.57	0.45	3.0	2	12	18	1	nw.	J. M. Van Dervort.	
Dixon.	Carbon.																			Chas. Spillman.	
Eden.	Sweetwater.	6,577	2	48.6		85	31	16	17	55	0.07		0.05	0.0	2	13	9	9	w.	Eden Valley L. and I. Co.	
Green River.	do.	6,083	5																	Geo. H. Maxon.	
Kendall.	Fremont.	7,630																		Art. Doyle.	
Pinedale.	do.	7,167	4	46.6		79	31	22	1	47	0.50		0.20	3.0	3	21	9	1	nw.	U. S. Forest Service.	
Rambler.	Carbon.	9,232									1.03		0.68	16.0	6	10	11	10	w.	J. C. Fothergill.	
<i>Colorado.</i>																					
Ashcroft.	Pitkin.	9,483	8	43.3		76	31	13	17	43	1.28		0.32	0.0	11	2	24	5	nw.	Dan McArthur.	
Breckenridge.	Summit.	9,536	20	40.0	+ 1.0	71	31	6	17	44	1.04	- 1.22	0.41	5.5	6	2	24	5	nw.	Mrs. J. G. Thompson.	
Cascade.	San Juan.	8,900	4								0.17		0.07	0.5	4	20	4	7	e.	San Juan P. and W. Co.	
Chromo.	Archuleta.	7,500	4								0.29		0.20	0.0	2	14	16	1	sw.	Lawrence Nolan.	
Cochetopa.	Saguache.	9,088									0.85		0.37	2.0	8	10	15	6	w.	Bessie McDonough.	
Colbran.	Mesa.	6,000	17	54.6		84	31	28	161	38	0.82	- 0.70	0.38	4.5	6	17	12	2	sw.	A. A. Wood.	
Columbine.	Routt.	8,766									4.10		0.03	29.0	9	20	6	5	sw.	Mrs. M. A. Caron.	
Columbine Ranch.	Delta.	6,925									0.56		0.23	2.0	5	20	6	5	s.	Geo. W. Wade.	
Corona.	Grand.	11,680	3	31.0		57	31	10	21	27	5.27		1.11	45.6	16	2	24	5	w.	U. S. Weather Bureau.	
Crawford (near).	Montrose.	6,600		54.1		83	31	25	17	38	0.89		0.20	1.0	8	19	9	3	e.	C. W. Roe.	
Creede Butte.	Gunnison.	8,887		43.3		76	31	14	17	48	1.09		0.46	0.0	5	15	10	6	w.	Charles L. Ross.	
De Beque.	Mesa.	4,935		60.8	05	31	34	16	47	33	0.14		0.14	0.0	4	25	0	6	e.	C. M. Paine.	
Delta.	Delta.	4,985	19	60.4	+ 1.5	96	31	26	17	52	0.17	- 0.52	0.08	0.0	3	17	6	8	n.	E. M. Getts.	
Dillon.	Summit.	8,800	1	47.7		62d	27	28d	87	24	0.31		0.28	4.8	3	15	10	6	n.	Harry T. Hamilton.	
Dolores.	Montezuma.	6,500		53.5		81	25	28	16	44	0.15		0.15	0.0	1	18	8	5	ne.	Geo. R. Simmons, jr.	
Durango.	La Plata.	6,534	17	55.6	+ 2.5	89	30	27	17	43	0.09	- 1.07	0.04	T.	4	11	17	3	nw.	U. S. Weather Bureau.	
Eagle.	Eagle.	6,598									0.80		0.35	1.0	5	16	4	16	w.	J. M. Witteman.	
Eureka.	San Juan.	10,000	3	39.5		71	31	7	17	47	1.80		0.60	18.3	5	11	4	16	w.	San Juan P. & W. Co.	
Frazer.	Grand.			61.9	+ 3.4	90	31	27	17	47	0.08		0.93	0.05	0	2	19	5	7	se.	L. D. C. Gaskill.
Fruit.	Mesa.	4,510	11								1.64		0.79	0.0	7	8	18	5	ne.	J. B. Willsea.	
Gladstone.	San Juan.	10,400	3								0.44		0.27	4.0	3	20	3	2	w.	San Juan P. & W. Co.	
Glenwood Springs (near).	Garfield.	5,823	12	55.8		80	10f	25	17	46	0.60		0.61	0.24	0.0	3	18	9	4	sw.	E. A. O'Neil.
Grand Junction.	Grand.	4,608	19	62.4	+ 1.5	93	31	34	16	38	1.80		1.00	0.0	5	14	4	14	s.	U. S. Weather Bureau.	
Grand Lake.	Garfield.	8,153	2								0.61		0.23	1.5	5	13	17	1	sw.	Mrs. Belle Kaufman.	
Grand Valley.	Garfield.	5,089	18	58.4	+ 1.2	95	29	31	18f	52	0.48	- 0.76	0.29	0.0	3	12	14	5	sw.	Clarence Adams.	
Gunnison.	Routt.	7,670	17	50.3	+ 2.6	80	31	20	22	57	0.30	- 0.40	0.16	0.0	3	15	14	2	sw.	C. W. Harkness.	
Hayden.	La Plata.	6,337	1								0.61		0.23	1.5	5	13	17	1	sw.	John S. Spear.	
Hesperus.	Routt.	8,870	11								1.09		0.42	4.5	7	19	7	19	n.	J. Finch.	
Horseshoe.	Montrose.	8,700									1.22		0.45	4.0	9	5	13	13	sw.	P. H. Foley.	
Ironot.	Ouray.	10,000	2	47.4		80	31	20	17	47	1.22		0.25	4.5	7	11	13	7	n.	H. A. Howe.	
Kremmling (near).	Grand.	7,337	5								2.30		0.90	17.5	7	12	16	3	sw.	J. F. Maurer.	
Lake City.	Hindale.	8,686	5	48.0		81	29	18	17	43	0.73		0.25	4.5	7	11	13	7	s.	I. A. Wallihan.	
Lay.	Routt.	6,190	16	49.4	- 0.6	86	31	20	17	52	1.16	- 0.15	0.72	2.0	4	13	4	14	sw.	L. J. Wade.	
Leal.	Grand.	8,750									1.80		0.90	17.5	7	12	16	3	sw.	U. S. Reclamation Service.	
Lujane.	Montrose.	6,620	4	57.4		89	31	27	17	40	0.58		0.18	3.0	5	20	11	0	sw.	B. M. Kruppanitsky.	
Mancos.	Montrose.	6,960	11	53.0	+ 2.2	88	29	23	57	50	1.08		0.55	1.0	0	15	14	2	sw.	Homer Harrington.	
Marble.	Gunnison.	7,951	1	48.0		81	31	18	17	47	1.85		0.55	11.0	8	21	1	ne.	William D. Lillard.		
Marshall Pass.	Saguache.	10,846	7								0.38		0.25	8.0	2	14	14	3	w.	F. A. Field.	
Meeker.	Rio Blanco.	6,182	18	50.5	- 1.1	84	31	18	17	50	1.36	- 0.07	0.52	T.	5	14	11	6	sw.	Mrs. Maggie Cammann.	
Montrose (near).	Montrose.	5,811	21	53.4	+ 1.2	79	11	25	17	46	0.55	- 0.20	0.28	T.	3	17	16	3	w.	Mrs. C. P. Hill.	
Nast.	Pitkin.	7,953		48.3		76	31	24	17	37	1.22		0.52	5.2	6	16	5	10	w.	Dorothea Greiner.	
Pagoda.	Routt.	6,500	19	49.9	+ 0.2	85	31	20	17	49	1.72	+ 0.29	0.47	0.0	6	23	5	3	sw.	Clinton B. Smith.	
Pagosa Springs.	Archuleta.	7,108	3	50.1		89	30	17	17	57	0.34		0.09	T.	5	20	15	4	sw.	U. S. Reclamation Service.	
Ponia.	Delta.	5,694	15	58.4		91	31	29	17	41	0.93	- 0.47	0.48	T.	5	13	15	3	sw.	W. F. Irving.	
Parshall.	Grand.		1								0.98		0.35	5.0	6	17	7	7	s.	Central Colo. Power Co.	
Pitkin.	Gunnison.	9,500	1								0.73		0.36	9.5	4	13	8	10	sw.	W. S. Park.	
Rangely.	Rio Blanco.	5,050	11								0.28		0.20	2.0	2	16	14	1	sw.	A. P. Root, jr.	
Redcliff.	Eagle.	8,695	15								0.28		0.20	2.0	2	16	14	1	sw.	San Juan P. & W. Co.	
Rico.	Dolores.	8,824	8								0.28		0.20	2.0	2	16	14	1	sw.	H. J. Wills.	
River Portal.	Monroe.	6,570	4	55.6		89	31	25	16	46	1.08		0.41	1.5	6	19	7	7	w.	M. E. Houston.	
Sapinero.	Gunnison.	8,125	8	46.8		76	31	20	17	42	1.15		0.47	6.8	8	17	7	7	w.	San Juan P. & W. Co.	
Shoshone.	Garfield.	6,110		54.0		79	30	32	17	31	1.25		0.50	3.0	6	14	6	11	sw.	Do.	
Silt.	do.	5,441	13								0.17		0.15	0.0	2	22	4	5	s.	Martin Easer.	
Silverton (1).	San Juan.	9,285	6	45.0		80	29	17	17	49	0.81		0.48	5.0	6	21	4	6	sw.	C. E. Macy.	
Silverton (near).	do.	9,400	3	42.7		75	29	18	17	43	0.67		0.24	2.5	4	6	11	14	sw.	Percy A. Hughes.	
Spruce Lodge.	Grand.	9,600	2								3.30		0.97	22.0	11	3	3	0	sw.	Maude A. Palmer.	
Steamboat Springs.	Routt.	6,083	7	47.0		83	31	17	17	52	1.45		0.72	T.	5	24	0	7	sw.	E. H. Wolf.	
Tacoma.	La Plata.	7,300	3	53.4		83	29	28	17	48	0.02		0.02	0	1	21	9	1	sw.	J. A. Jeffs.	
Terminal Dam.	do.	8,300	3								0.21		0.09	T.	5	20	8	3	s.	H. C. Wickman.	
Uncompahgre Plateau.	Montrose.	8,400									0.23		0.0	1	11	19	1	sw.	Geo. H. Barney.		
Whitepine.	Gunnison.	9,500	10	41.7		72	30	11	22	39	0.45		0.45	6.0	1	10	8	2	w.	B. F. Mudd.	
Yampa.	Routt.	8,000	1								1.26		0.38	1.2	7	11	11	9	n.	Joseph A. Lyman.	
Utah.	San Juan.	7,560	1								0.17		0.15	0.0	2	22	4	5	s		

TABLE 1.—Climatological data for May, 1910. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.	Prevailing wind direction.	Observers.				
				Mean.	Highest.	Lowest.	Date.	Total.	Greatest daily range.	Date.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days, 1 inch or more.	Number of partly cloudy days.	Number of clear days.			
Utah—Cont'd.																		
Vernal.	Uinta.	5,050	15	56.4	-0.4	93	31	25	16	46	0.01	-1.11	0.01	0.0	1	25	3	3
New Mexico.																		
Alma.	Socorro.	5,500	11	65.6	+3.5	105	29	31	6	57	0.30	-0.04	0.16	0.0	3	7	21	3
Aragon.	do.	5,856	3	54.2		94	29 ^b	20	6	57	0.55		0.40	0.0	2	16	13	2
Blackrock.	McKinley.	6,500	12	58.5		91	29 ^b	30	6	48	T.		0.0	0	0	12	17	2
Bloomfield.	San Juan.	5,500	15	60.3	+2.3	100	30	26	6	58	T.		0.54	T.	0	8	22	1
Cambray.	Luna.	4,215	11								0.00		-0.12	0.00	0	12	19	0
Columbus.	do.	4,054									0.00		0.00	0.0	0	23	3	5
Deming.	Rio Arriba.	4,333	33	70.3		100	29 ^b	42	2	46	0.00	-0.18	0.00	0.0	0	7	15	9
Dulce.	Rio Arriba.	6,767	12	53.7 ^a	+2.6	91 ^b	29 ^b	23 ^b	17	54	0.05	-1.03	0.05	0.0	1	19	19	2
Fort Bayard.	Grant.	6,152	35	66.8	+5.0	93	30	33	1	49	0.32	+0.04	0.22	0.0	0	26	1	4
Port Wingate.	McKinley.	6,997	46	59.9	+1.8	88	30	30	17	50	T.		0.58	T.	0	8	6	sw.
Fruitland.	San Juan.	4,800	17	61.0	+1.1	97	29 ^b	27	17	54	0.00	-0.34	0.00	0.0	0	21	8	2
Gage.	Luna.	4,486	3	69.6		95	27 ^b	44	21	47	0.14	+0.02	0.14	0.6	1	18	10	3
Gila (near).	Grant.	4,470	11	65.0	+0.9	95	9	30	23	57	0.15	-0.04	0.15	0.0	1			
Hachita.	do.	4,504									0.00		0.00	0.0	0	16	11	4
Haynes.	Rio Arriba.	6,800									0.01		0.01	0.0	1	31	0	nw.
Hermanes.	Luna.	4,451									0.00		0.00	0.0	0	28	3	0
Lordsburg.	Grant.	4,245	10	70.7	+1.4	190	30	45	17	49	0.42	+0.20	0.42	0.6	1	20	9	2
Luna (near).	Socorro.	7,300	5								0.52		0.46	0.0	2	20	11	0
Manuelito.	McKinley.	6,252	5								0.00		0.00	0.0	0	28	3	0
Mimbres.	Grant.	5,007	5								0.00		0.00	0.0	0	29	2	sw.
Pratt.	do.	4,415									0.11		0.11	0.0	1	14	17	0
Putnam.	San Juan.	6,200									0.06		0.06	0.0	1			
Redrock.	Grant.	4,150	5															
Rodeo.	do.	4,118																
Rosa.	Rio Arriba.	6,000	5															
Arizona.																		
Allaire Ranch.	Cochise.	4,184	14								0.00	-0.15	0.00	0.0	0	28	1	2
Arizona Canal Dam.	Maricopa.	1,372	15	79.0	+4.2	115	30	49	5	44	0.02	-0.14	0.02	0.1	1	19	9	3
Asete.	Yuma.	492	12	76.2	-4.4	120	30	38	5	68	0.00	-0.05	0.00	0.0	0	23	2	1
Benson.	Cochise.	3,523	23	72.6	-2.3	106	29	43	5	48	T.	-0.13	T.	0	0	10	12	9
Pisbee.	do.	5,500	20	68.5	+2.5	95	29	44	20	32	T.	-0.26	T.	0	0	22	7	2
Bonita.	Graham.	4,916									0.00	-0.26	0.00	0.0	0	27	0	4
Bowie.	Cochise.	3,756	33	75.8	+4.6	106	29	48	2	44	0.00	-0.24	0.00	0.0	0	27	1	3
Buckeye.	Maricopa.	980	17	77.1	+4.6	113	29	48	21	52	0.00	-0.07	0.00	0.0	0	31	0	0
Canille.	Santa Cruz.	5,225	1								0.15	-0.15	0.0	1	1	7	22	2
Casa Grande.	Pinal.	1,398	23	79.8	+0.6	120	30 ^b	48	21	52	0.00	-0.05	0.00	0.0	0	20	9	2
Cave Creek.	Maricopa.	1,523	3	75.4		114	29 ^b	41	3	50	T.		T.	0	0	26	5	0
Chin Lee.	Apache.	6,090	2	61.0		95	31	29	3	57	T.		T.	0	0	24	7	0
Chilarsons Mill.	Graham.	8,000	3	58.6		86	29	28	5	48	0.39	0.0	1	15	15	1		
Clifton.	Graham.	2,584	19	75.8		106	29	54	3	34	0.01	-0.39	0.01	0	1	28	2	1
Cline.	Gila.	2,300	10	73.0	+4.7	109	29	43	19	51	0.00	-0.34	0.00	0.0	0	20	10	1
Cochise.	Cochise.	4,219	11	69.2	-1.9	104	29	40	17	49	T.	-0.23	T.	0	0	28	3	0
Columbia.	Yavapai.	1,900	11	80.6		114	29 ^b	50	5	38	T.		T.	0	0	23	8	0
Congress.	do.	3,688	14	76.6	+5.5	107	30	51	5	29	T.	-0.11	T.	0	0	25	6	0
Courtland.	Cochise.	4,543	1								0.03	-0.02	0.02	0	2	12	14	5
Dos Cabezos.	do.	5,250	2	67.8		104	30	35	7	55	0.00		0.00	0	0	26	3	2
Douglas.	do.	3,930	7	72.0		106	29	34	23	50	0.02		0.02	0	1	25	5	1
Dudleyville.	Pinal.	2,204																
Fairbank.	Cochise.	3,862	1								0.00		0.00	0	0	21	0	10
Flagstaff (1).	Coconino.	6,907	18	53.4	+2.7	88	31	22	5	47	0.03	-1.18	0.03	0.0	1	18	10	3
Florence.	Pinal.	1,504	11	79.8	+4.7	115	31	54	17	49	0.10	+0.05	0.10	0.0	1	19	1	11
Fort Apache.	Navajo.	5,200	39	62.5	+2.0	98	29	34	6	49	0.32	-0.29	0.25	0.0	2	23	7	1
Fort Huachuca.	Cochise.	5,100	25	71.4	+4.1	104	29	41	20 ^b	44	0.00	-0.28	0.20	0.0	0	29	2	0
Fort Mohave.	Mohave.	604	39	80.6	+1.3	117	29 ^b	44	5	47	0.00	-0.12	0.00	0.0	0	25	6	0
Gilabend.	Maricopa.	737	19	83.1	+4.1	121	29 ^b	51	5	48	0.00	-0.04	0.00	0.0	0	15	16	0
Globe.	Gila.	3,525	9	73.2		106	29	43	5	43	0.13	-0.20	0.13	0.0	1	25	6	0
Grand Canyon.	Coconino.	6,866	7															
Greer.	Apache.	9,200	6															
Hersford.	Cochise.	4,180	1															
Holbrook.	do.	5,069	21	64.2	+3.4	101	29	29	5	59	0.00	-0.28	0.00	0.0	0	30	0	1
Intake.	do.	2,230	3															
Jerome.	Yavapai.	4,743	13	71.0	+4.6	99	29 ^b	43	5	31	0.00	-0.56	0.00	0.0	0	22	9	0
Keams Canyon.	Navajo.	6	58.6			91	31	25	7	44	T.		T.	0	0	16	15	0
Kingman.	Mohave.	3,826	8															
Lewis Springs.	Cochise.	4,029	1															
Maricopa.	Pinal.	1,186	33	80.2	+0.3	116	30	49	5	44	T.	-0.05	T.	0	0	16	14	1
Mesa.	Maricopa.	1,244	14	81.0	+7.3	118	28	41	20	57	T.	-0.06	T.	0	0	24	7	0
Mohawk Summit.	Yuma.	538	9	82.7	+0.8	130	30	50	4	51	0.00	-0.04	0.00	0.0	0	25	6	0
Naco.	Cochise.	4,579	1															
Natural Bridge.	Gila.	4,990	21															
Nogales.	Pinal.	3,830																
Oracle.	Santa Cruz.	4,500	18	76.0	+7.5	101	29	49	4	33	T.	-0.38	T.	0	0	22	9	0
Osborn.	Cochise.	4,676	1															
Paradise.	Cochise.	3,940	4	64.6		95	29	36	23	48	0.00		0.00	0	0	12	12	7
Parker.	Yuma.	345		81.8	+5.1	117	20 ^b	43	5	56	0.00	-0.14	0.00	0.0	0	24	4	3
Payson.	Gila.	5,500	1	62.2		97	29 ^b	28	5	56	T.		T.	0	0	8	10	4
Phoenix (1).	Maricopa.	1,108	15	79.1	+4.3	114	30	48	5	43	T.	-0.03	T.	0	0	19	12	0
Pinal Ranch.	Pinal.	4,520	15								0.13	-0.21	0.13	0.0	1	22	9	0
Pinto.	Apache.	5,600	5															

TABLE 1.—Climatological data for May, 1910. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days, .01 inch or more.	Number of partly cloudy days.	Number of clear days.	Prevailing wind direction.	
<i>Arizona—Cont'd.</i>																			
Thatcher.....	Graham.....	2,800	7	69.8		107	29	40	2†	51	0.10	—	0.10	0.0	1	14	17	nw.	Prof. J. H. Larson.
Tombstone.....	Cochise.....	4,550	11	71.8	+ 4.0	99	29	47	20	37	0.00	—	0.25	0.00	0	23	7	1	F. N. Walcott.
Truxton.....	Mohave.....	4,197																E. B. Atkinson.	
Tuba.....	Coconino.....	4,500	12	63.2	+ 1.3	98	31	32	17	44	0.05	—	0.16	0.05	0.0	1	17	9	ne.
Tucson.....	Pima.....	2,390	30	75.3	+ 2.2	111	29	42	5†	49	T.	—	0.14	T.	0.0	8	23	0	G. H. Kraus.
Vail.....	do.....	3,421	11	74.8	+ 0.5	108	29	40	5	50	T.	—	0.02	T.	0.0	0	16	15	nw.
Walnut Grove.....	Yavapai.....	3,649	18															J. O. Carter.	
Wickenburg.....	Maricopa.....	2,072		74.2	+ 4.6	114	31	40	5	53†	0.00	—	0.21	0.00	0.0	0	29	2	s.
Wilcox.....	Cochise.....	4,164	28	66.8	- 2.7	104	30	40	6†	48	0.00	—	0.33	0.00	0.0	0	19	0	Southern Pacific Co.
Williams.....	Coconino.....	6,750	8	57.5	+ 3.4	92	30†	25	5	54	0.00	—	0.97	0.00	0.0	0	18	13	E. J. Nordyke.
Winslow.....	Navajo.....	4,853	5	67.6		103	29†	30	5	55	T.			T.	0.0	0	16	12	J. F. Bauer.
Yarnell.....	Yavapai.....	4,700	12															E. L. Bartholomew.	
Yuma.....	Yuma.....	141	29	78.8	+ 2.0	120	30	47	5	52	0.00	—	0.03	0.00	0.0	0	31	0	U. S. Weather Bureau.
<i>Nevada.</i>																			
Las Vegas.....	Clark.....			71.8		114	30†	28	5	55	0.00		0.00	0.0	0.0	0	9	16	Salt Lake Route.
Logan.....	do.....			75.0		114	30	42	6	51	T.		T.	0.0	0	9	6	Ray M. Filcher.	

*, †, ‡, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

* Precipitation included in that of the next measurement.

** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of falls not recorded.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

|| Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Estimate by observer.

¶ Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for May, 1910. District No. 9, Colorado Valley.*

TABLE 2.—*Daily precipitation for May, 1910. District No. 9—Continued.*

TABLE 3.—Maximum and minimum temperatures at selected stations, May, 1910. District No. 9, Colorado Valley.

Date.	Wyoming.				Colorado.												Utah.						New Mexico.																	
	Daniel.		Green River.		Durango.			Grand Junction.			Gunnison.			Meeker.			Steamboat Springs.			Emery.			Fort Duchesne.			Hite.			Moab.			St. George (Experiment station).			Fort Bayard.			Fort Wingate.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.						
1.	60	22			59	37	56	46	59	33	50	32	44	32	76	45	56	42	73	55	68	53					82	33	78	42										
2.	62	21			65	38	63	38	65	29	54	34	53	33	65	28	63	32	77	49	73	37					86	38	78	39										
3.	64	23			69	40	77	45	60	32	69	34	66	27	66	32	74	36	85	53	83	40					84	40	78	42										
4.	66	23			69	39	79	48	68	28	72	36	70	31	63	31	75	37	79	54	83	55					82	45	74	41										
5.	50	30			59	31	64	33	70	31	63	29	66	32	68	32	61	35	74	49	72	40					80	42	81	39										
6.	62	38			70	33	69	44	72	32	59	32	48	32	65	32	72	35	79	49	75	40					78	42	69	38										
7.	63	30			68	35	75	45	70	30	67	31	60	30	66	35	79	33	83	50	83	40					80	47	70	36										
8.	69	30			76	37	79	48	74	39	71	32	69	38	81	37	87	50	86	43						85	48	75	40											
9.	78	29			79	40	84	48	75	40	76	34	75	30	69	38	84	38	88	50	93	42					87	50	80	41										
10.	66	44			77	43	86	60	70	30	78	45	74	38	75	40	84	53	81	59	90	57					87	52	80	56										
11.	68	31			80	40	81	52	76	35	71	33	68	31	72	41	81	35	91	63	87	50					88	55	80	44										
12.	69	27			76	41	84	54	74	42	74	37	69	29	65	40	81	39	95	58	89	46					87	56	81	41										
13.	71	37			76	47	78	59	72	43	60	38	66	29	68	45	79	46	91	59	90	65					86	58	83	54										
14.	65	33			72	40	76	53	67	41	69	33	65	32	68	47	79	37	85	59	88	48					85	60	84	49										
15.	45	24			69	33	73	39	70	42	58	27	52	28	61	36	64	39	86	50	80	45					86	61	83	54										
16.	52	25			64	33	53	34	62	26	44	27	40	27	62	35	58	33	66	64	81					88	84	84	34											
17.	63	19			68	27	70	36	60	29	62	18	64	17	65	31	69	23	77	75	82					82	65	80	30											
18.	69	25			69	37	76	38	59	34	67	27	67	24	72	31	79	30	84	83	87					79	60	65	32											
19.	64	27			71	34	79	42	57	28	65	28	69	24	76	33	80	32	88	86	88					78	69	77	45											
20.	69	28			68	34	68	50	64	27	64	33	57	30	75	35	74	41	81	74	80					76	61	67	52											
21.	73	27			58	38	60	44	72	24	52	35	49	32	73	31	66	33	80	74	44					74	61	62	44											
22.	76	23			68	31	73	36	69	20	64	24	61	21	75	33	75	30	84	79	37					77	60	63	34											
23.	74	23			73	35	82	46	70	20	73	30	71	30	83	40	89	37	91	89	40					76	40	73	35											
24.	70	22			78	40	84	54	70	27	75	33	71	36	75	40	84	44	85	93	40					77	45	77	42											
25.	68	24			73	41	80	61	72	22	76	37	73	33	72	36	80	42	86	52	90	53					66	46	74	54										
26.	65	25			76	37	79	47	77	28	68	43	65	35	75	42	80	36	92	58	86	46					81	41	77	47										
27.	68	27			83	41	86	54	78	38	79	33	74	27	72	41	89	39	97	59	95	45					90	43	84	49										
28.	67	29			86	43	88	54	74	38	76	39	74	49	75	43	85	45	98	67	95	48					91	59	86	54										
29.	76	32			89	46	93	57	75	25	80	36	79	30	71	46	89	44	102	88	96	51					90	53	87	53										
30.	77	30			89	46	92	59	75	27	83	40	82	30	75	46	93	40	103	82	98	50					93	47	88	50										
31.	79	32			84	48	93	59	80	23	84	34	83	32	76	49	95	43	104	80	102	48					72	52	87	49										
Mns.	66.8	27.4			72.9	38.2	76.8	48.0	69.7	30.9	67.8	33.2	65.5	30.3	70.3	37.8	77.1	37.8	86.6	56.2 ^b	84.5	44.8					82.4	51.1	76.0	43.8										

Arizona.

Date.	Bisbee.				Flagstaff.				Fort Apache.				Grand Canyon.				Parker.				Phoenix.				Prescott.				St. Michaels.				San Carlos.				Tucson.				Yuma.				Logan, Nev.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.											
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.											
1.	77	55	62	33	75	36	.....		93	60	85	57	67	42	69	36	87	43	89	55	88	56	84	48					85	54	87	55															
2.	77	55	64	28	76	36	.....		88	58	86	57	74	36	70	36	89	43	89	50	85	54	87	55					82	53	86	46															
3.	76	57	63	36	80	42	.....		90	60	86	61	71	33	71	35	91	54	90	53	86	55	88	57					86	58	86	46															
4.	74	57	58	35	75	40	.....		85	55	82	57	63	43	75	36	91	53	90	52	84	51	81	57					85	60	84	58															
5																																																